TUNAS JAYA PGGMB MADANG

THE ANCHOR

Relationships, Belonging and Wellbeing in an AI Age.

Empowering Our Community

- Connection
- Integration
- Well-being
- Stability

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The Triple Anchor Framework

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Relationships

- Student experience
- Human-AI connections
- Inclusive engagement

Belonging

- Madang community
- Valuing every student
- Unified AI spaces

Well-being

- Mental resilience
- Human-centered tech
- Psychological safety

TUNAS JAYA PGGMB MADANG: BELONGING IN AN AI AGE

DIGITAL TRANSFORMATION PLAN 2023-2027

01. National Alignment

- Align with Brunei national education goals.
- Scale **Digital Literacy** & AI teaching.

02. AI Pedagogy

- Transition to AI-driven teaching models.
- Equip staff with **personalized tools**.

03. Economy Readiness

- Prepare for Brunei's tech-ready workforce.
- Safeguard **Human Values** in the community.

04. Digital Literacy

- Boost student **Digital Fluency** skills.
- Master complex tech landscapes by 2027.



TUNAS JAYA PGGMB MADANG • AI EXCELLENCE

WHY HUMAN-CENTRED AI?

Ethical Foundations
Aligning AI tools with the cultural and moral ethics of our Brunei community.

Pedagogy First
AI acts as a catalyst for learning, keeping core teaching methods primary.

Vital Mentorship
Helping educators transition from traditional lecturers to inspired mentors.

Human Connection
Strengthening the student-educator bond through personalized care and AI.



Collaboration and curiosity in action at Tunas Jaya PGGMB Madang

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21st Century Skills
In The AI Era

Relationships & Well-being





Digital Evolution

Digital Brunei focus

Active inquiry learning

Balanced Focus

Soft skills mastery

Empathy & teamwork

Well-being

Social connections

AI-ready mindsets

THE 6CS: CHARACTER & GLOBAL

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Character Building
- Foster **learner integrity**
- Embed **Bruneian values**

Digital Citizenship
- Ensure **safe digital usage**
- Connect in **global spaces**

Ethical Judgment
- Critical **problem solving**
- **Social responsibility**

Future Readiness
- Master **modern tools**
- Focus on **personal growth**







Digital Learning at Tunas Jaya PGGMB

ICT & DIGITAL LEARNING

COMMUNICATION & COLLABORATION

- Enhance dialogue via AI for engagement at **PGGMB Madang**.
- Implement **cybersecurity** to create a safe learning environment.
- Master **AI prompt engineering** to access global resources.

RELATIONSHIPS & WELL-BEING IN AN AI AGE





Digital tools integration at PGGMB Madang.

THE 6Cs: CREATIVITY & CRITICAL THINKING

STEAM INNOVATION FOR THE FUTURE

Creativity

Active creation vs passive usage in ICT lessons

Innovative STEAM projects like "LAVA LAMP"

Solving community challenges via digital design

Critical Thinking

Evaluating AI suggestions in scientific research

Questioning mindset towards digital data

Human-led analysis in laptop learning sessions





Hands-on science inquiry at Tunas Jaya PGGMB Madang

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AI for Differentiated Math Instruction

Personalized Paths

Tailor learning for diverse abilities
Empower student autonomy

Adaptive Platforms

Address individual learning gaps
Inclusive, student-centered tools

Real-time Feedback

Instant support for tasks
Deepen conceptual understanding



Personalized digital math learning environments.

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COLLABORATIVE SCIENCE INQUIRY



Hands-on science inquiry at Tunas Jaya PGGMB Madang

STEAM FOCUS 01

GROUP ANALYSIS

Collaborative data analysis

Brunei school community teamwork

Shared scientific discovery

INNOVATION 02

VISUAL RESEARCH

- Simulate complex phenomena
- Digital team insights
- Madang campus research focus

DIGITAL CITIZENSHIP & ETHICS

Empowering the Tunas Jaya PGGMB Madang Community

Hands-on science inquiry at Tunas Jaya PGGMB Madang



01 Data Privacy & The 6Cs

- Applying 6Cs to protect Tunas Jaya student identities
- Securing digital footprints in our local "cyber security"

02 Ethical AI in STEAM

- Modeling responsible AI use in our Science inquiries
- Fostering balanced tech habits for student well-being

03 Safety & Mutual Respect

- Building a culture of respect across all digital platforms
- Prioritizing safety as the anchor of our Madang community

TEACHER WELL-BEING & EMPOWERMENT

WARMTH AND BELONGING IN OUR COMMUNITY

BURNOUT MITIGATION

- **Automate** grading workflows
- Reduce administrative friction

RESOURCE CURATION

- **Reclaim** focus for students
- Localized content discovery

MADANG MENTORSHIP

- **Strengthen** peer support
- Tunas Jaya teacher community

SYNERGISTIC MODEL

- **Enhance** teaching quality
- Human-centric AI integration



COLLABORATION AND CURIOSITY IN ACTION

Empowering the Tunas Jaya PGGMB Madang Community

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AI Prompt Engineering

Curriculum Standards & Classroom Design

Practical Skill

- Generate high-quality **Math quizzes**
- Design **Science rubrics**
- Apply real-time class prompts

Frameworks

- Align with **MOE Brunei** syllabus
- Support **MoE standards**
- Pedagogical consistency

Impact

- Modernize teaching methods
- Reduce teacher workload
- Boost **Learning** quality





LESSON REDESIGN

Curriculum Review

- Audit Math/Science for Madang students
- Integrate "cyber security" digital points
- Align tech tools to school learning goals

Strategic Balance

- Foster local community belonging
- Balance screen-time and physical inquiry
- Prioritize class social-emotional growth

Touchpoint Mapping

- Apply AI-ready tools in experiments
- Streamline Math data visualization
- Utilize smart inquiry simulations

Human Connection

- Teacher as mentor and guide
- Collaborative projects for PGGMB
- Strengthen school & community ties



Hands-on using laptop at Tunas Jaya PGGMB Madang

IMPLEMENTATION CHALLENGES

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Connectivity & School Well-being

- Address local technical barriers in **Madang**.
- Bridge **infrastructure gaps** to ensure digital stability for our students.

Madang Community Ethics

- Align AI usage with **parental expectations** and local values.
- Foster professional growth within the **Tunas Jaya PGGMB Madang** peer network.



Addressing digital inclusion at Tunas Jaya PGGMB Madang

CASE STUDY: MATH SUCCESS

AI & HUMAN CONNECTIONS



01: INTEGRATION

- Maths resources
- Digital math reasoning
- Personalized pathways



02: OUTCOMES

- **40% Higher** engagement
- Hands-on digital tools
- Stronger community ties



03: STRATEGY

- Local Madang context
- STEAM inquiry balance
- Triple Anchor values

WELL-BEING & BELONGING

STUDENT COLLABORATION

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MADANG, BRUNEI

AI CO-RESEARCHER

- → AI as inquiry partner
- → Sparking curiosity in Madang
- → Enhanced local explorations

SKILL MASTERY

- → Real-time data analysis
- → Critical thinking at Tunas Jaya
- → Clearer scientific communication

ENGAGEMENT

- → Collaborative STEAM tools
- → Higher student interest levels
- → Inclusive learning environment

WELL-BEING

- → Holistic integration
- → Nurturing digital safety
- → Mental health support



Collaboration and curiosity in action

Students at Tunas Jaya PGGMB Madang celebrating discovery through their lava lamp inquiry project, fostering a sense of belonging and achievement.

Summary & Key Takeaways

EMPOWERING COMMUNITY THROUGH DIGITAL EXCELLENCE



01 Our Guiding Light

- Prioritizing human connection in digital spaces.
- Ensuring student well-being and belonging.

02 Strategic Synergy

- Integrating SPN21 with human-centred AI.
- Enhancing STEAM through hands-on pedagogy.

03 Future Commitment

- Executing the 2023-27 Transformation Plan.
- Aligning with global learner frameworks.

ACTION PLAN

STRATEGIC ROADMAP • TUNAS JAYA PGGMB MADANG

ACADEMIC EXCELLENCE

- Integrate 6Cs framework to foster future-ready skills
- Implement advanced inquiry-based pedagogy standards

DIGITAL TRANSFORMATION

- Empower security for technological leadership
- Cultivate human-centric digital belonging environment

Visionary Growth for Tunas Jaya PGGMB



STJ PGGMB (MADANG)



Tunas Jaya PGGMB Madang